

1011 SW Klickitat Way, Ste. 104 Seattle, Washington 98134 Phone 206-381-1128 Toll Free 800-666-2959 Fax 206-254-4279

January 15, 2016

Mr. Devlin Piplic Director of Facilities and Operations Monroe School District 639½ West Main Street Monroe, Washington

**Subject:** Sky Valley Education Center

PCB air and wipe sampling in Annex Building

EHSI Project 10816-01

Dear Mr. Piplic:

At your request, EHS-International, Inc. (EHSI), an environmental health and safety consulting firm, conducted and analyzed air samples and one wipe sample for polychlorinated biphenyls (PCBs) in selected areas of the Sky Valley Education Center located at 315 Short Columbia Street in Monroe, Washington. The results and conclusions are included in the attached report.

EHSI is pleased to provide our professional industrial hygiene services. If you have any questions concerning this report or if EHSI can provide further services to you, please call me at (206) 381-1128.

Sincerely,

EHS-International, Inc.

Clinton Holzhauer

Manager, Indoor Air Quality Services

206-381-1128

· Environmental Engineering

· Earth Sciences and Mapping

· Industrial Hygiene Services

· Construction Management

### Monroe School No. 103 District Sky Valley Education Center Collection and Analysis of PCBs in Air & Wipe Sample

#### Prepared for:

Mr. Devlin Piplic Director, Facilities and Maintenance Monroe School District 639½B W. Main Street Monroe, WA 98272-2024

January 15, 2016 EHSI Project 10816-01



1011 SW Klickitat Way Ste. 104 Seattle, Washington 98134

Telephone: (206) 381-1128 • Toll Free: (800) 666-2959 • Fax: (206) 254-4279



### POLYCHLORINATED BIPHENYLS (PCBs) AIR & WIPE SAMPLING SKY VALLEY EDUCATION CENTER MONROE, WASHINGTON

#### **EXECUTIVE SUMMARY**

On December 23<sup>rd</sup>, 2015, EHS-International, Inc. (EHSI), an environmental health and safety consulting firm, commenced testing for airborne polychlorinated biphenyls (PCBs) in two locations and collected one wipe sample for PCBs within the Sky Valley Education Center located at 351 Short Columbia Street in Monroe, Washington. The Sky Valley Education Center provides alternative instruction for students from kindergarten through high school.

According to the Monroe School District (School District), prior to sampling, one fluorescent light ballast in Room D (classroom) within the Annex building failed, reportedly resulting in an oil leak onto the carpeted floor below. Results from testing for PCBs between December 23<sup>rd</sup> and 24<sup>th</sup>, 2015, indicate that the concentrations of PCBs in air at the time of sampling were less than the limit of detection, which in turn is both less than the Washington State Department of Labor and Industries (L&I) Division of Occupational Safety and Health (DOSH) permissible exposure limit (PEL) for airborne PCBs and less than the U.S. Environmental Protection Agency (EPA) guidelines for concentrations of PCBs in air in schools for staff and students over the age of 6 years.

The wipe sample from the floor tile immediately below the impacted carpet had low, but detectable levels of PCB. Due to the low level of PCB found in the collected sample, EHSI does not anticipate an exposure hazard from normal classroom activities within the ballast leak area. However, the School District may choose to remove the tile due to any perceived exposure hazard from concerned staff, students or their families.

This report provides information regarding the test method, onsite measurements and laboratory results from the collected sample.

#### **BACKGROUND**

It was reported to EHSI that a fluorescent light ballast in Room D of the Annex building failed and was removed on August 31, 2015. The failure was described as causing an oil leak. No smoke or associated odor was reported. The oil reportedly leaked onto carpeting under the fluorescent fixture, which was removed on December 17, 2015.

Monroe School District Testing for PCBs in Air EHSI Project #10816-01 January 15, 2016

#### SITE DESCRIPTION

The Skyway Valley Education Center, an alternative school, is located at 351 Short Columbia Street in Monroe, Washington. Airborne PCB testing was conducted in two locations within the Annex Building. One sample was collected in Classroom D which is approximately 900 square feet in area and for which ventilation is apparently provided by operable windows. A second, comparator sample was collected from the adjacent hallway, which is approximately 800 square feet in area.

#### **APPROACH**

Air samples were collected over a twenty-four (24) hour period using low flow Gilian sampling pumps calibrated to an airflow of 1.0 liter per minute (LPM). Samples were collected on 13 millimeter (mm) GFF Swinnex cassettes. A sample was collected from the room in which the ballast recently failed and an additional, comparator sample was collected from a "non-affected" area within the same annex building. Sample collection began on at 8:34am on December 23<sup>rd</sup> and concluded at 8:40am on December 24<sup>th</sup>, 2015. A wipe sample was also collected from the vinyl floor tile where the ballast oil had leaked onto the carpet. The carpet in the affected area was removed prior to this assessment. A wipe sample was taken from a 100 square centimeter (cm²) area. Sampling locations are denoted on the floor plans provided in Appendix A of this report.

The collected samples were shipped to Galson Laboratories (Galson) under "chain-of-custody" control. Galson is located in East Syracuse, New York, and is accredited by the American Industrial Hygiene Association (AIHA) Laboratory Accreditation Programs, LLC (Lab ID=100324). At the laboratory the air samples were analyzed in accordance with National Institute for Occupational Safety and Health (NIOSH) Method 5503 while the wipe sample was analyzed in accordance with US Environmental Protection Agency (USEPA) Regulation 40 CFR 761 - PCBs.

The testing was conducted between December 23<sup>rd</sup> and 24<sup>th</sup>, 2015, by Ms. Lisa Kollasch, EHSI Senior Environmental Scientist.

#### **MEASUREMENT & ANALYTICAL RESULTS**

Table 1 below provides a synopsis of the laboratory analytical results for air sampling. The laboratory analytical results are presented in Appendix B.

Monroe School District Testing for PCBs in Air EHSI Project #10816-01 January 15, 2016

Table 1
Laboratory Analytical Results for Air Sampling
Annex Building, Sky Valley Education Center
December 23 – 24, 2015

PCB	SVEC-AIR-01	SVEC-AIR-01	SVEC-AIR-02	SVEC-AIR-02
Compound	(Classroom D)	Classroom D	(Adjacent Hall)	Adjacent Hall
	mg/m <sup>3</sup>	ng/m³	mg/m³	ng/m³
Arachlor	< 0.0002	<200	< 0.0002	<200
1016				
Arochlor	< 0.0002	<200	< 0.0002	<200
1221				
Arochlor	< 0.0002	<200	< 0.0002	<200
1232				
Arachlor	< 0.0002	<200	< 0.0002	<200
1242				
Arachlor	< 0.0002	<200	< 0.0002	<200
1248				
Arochlor	< 0.0002	<200	< 0.0002	<200
1254				
Arochlor	< 0.0002	<200	< 0.0002	<200
1260				
Arochlor	< 0.0002	<200	< 0.0002	<200
1268				

 $mg/m^3$  = milligram per cubic meter of air  $ng/m^3$  = nanogram per cubic meter of air

Table 2 below provides a synopsis of the laboratory analytical results for wipe sampling. The laboratory analytical results are presented in Appendix B.

<sup>&</sup>lt; = less than

Monroe School District Testing for PCBs in Air EHSI Project #10816-01 January 15, 2016

# Table 2 Laboratory Analytical Results for Wipe Sampling Annex Building, Sky Valley Education Center Room D December 23, 2015

PCB Compound	2015-PCB-WIPE μg/100 cm <sup>2</sup>
Arachlor 1016	< 0.5
Arochlor 1221	<0.5
Arochlor 1232	<0.5
Arachlor 1242	1,800
Arachlor 1248	<0.5
Arochlor 1254	< 0.5
Arochlor 1260	<0.5
Arochlor 1268	<0.5

 $\mu g/100 \text{ cm}^2 = \text{micrograms per } 100 \text{ square centimeters of surface}$ 

#### **DISCUSSION OF RESULTS**

There are a number of compounds categorized as PCBs and they differ based on the number of chlorine atoms in the molecule. Exposure to PCBs can occur through ingestion or respiration. In general, in areas not contaminated by PCBs, ingestion is a larger contributor to PCB exposure than respiration.

DOSH has set a permissible exposure limit (PEL) to airborne PCBs of 1 milligram per cubic meter (mg/m³) for compounds with up to 42% chlorine and a PEL of 0.5 mg/m³ for compounds with up to 54% chlorine. PELs are applicable to adult workers, such as teachers and custodians. PELs are based on an average exposure over a forty (40) hour work week. The measured values in the Sky Valley Education Center were below the laboratory's limits of detection, which are significantly below these regulatory values.

The US EPA has established guidelines for "public health levels of PCBs in school indoor air" which are based on the weight (age group) of students. Their guidelines do not distinguish between PCBs of different concentrations of chlorine. These limits may be found at the following USEPA WEB Site:

(http://www.epa.gov/epawaste/hazard/tsd/pcbs/pubs/caulk/maxconcentrations.htm)

The EPA recommends that airborne PCB concentrations be kept as low as is reasonably achievable and that total PCBs be kept below the reference dose level. The reference dose level is twenty (20) nanograms of PCB per kilogram of body weight per day (20 ng PCB/kg-day). Table 3 below provides the EPAs reference dose levels based on the average weight of students, based on age, in schools.

Monroe School District Testing for PCBs in Air EHSI Project #10816-01 January 15, 2016

### Table 3 "Public Health Levels of PCBs in School Indoor Air (ng/m³)

From <a href="http://www.epa.gov/epawaste/hazard/tsd/pcbs/pubs/caulk/maxconcentrations.htm">http://www.epa.gov/epawaste/hazard/tsd/pcbs/pubs/caulk/maxconcentrations.htm</a>

	Assuming a background scenario of no significant PCB contamination in building materials and average exposure from other sources, these concentrations should keep exposure below the reference							
	dose of 20 ng PCB/kg-day.							
Age 1 - <2   Age 2 - < 3   Age 3 - <   Age 6 - < 12   Age 12 -   Age 15 -   Adult								
yr	yr	6yr	Elementary	<15 yr	<19 yr	19+ yr		
			School	Middle	High School			
				School				
70	70	100	300	450	600	450		

Results from airborne testing of PCBs at Sky Valley Education Center indicate that the PCB concentration in Classroom D is less than 200 ng/m<sup>3</sup>. This value is below the EPA guidelines for all age groups except infants and toddlers below age 6. A sampling time of greater than 24-hours would be required in order to achieve lower analytical detection limits.

#### **CONCLUSION**

Although a light ballast in the Sky Valley Education Center recently failed causing release of ballast oil, air testing approximately sixteen weeks after the ballast failure indicates that airborne PCB levels in the classroom of concern are significantly below the Washington State regulatory limits for workers and below the guideline values set by the EPA for school aged children.

EHSI does not anticipate an exposure hazard from the PCBs detected on the vinyl tile flooring due to a very low level being found. The Monroe School District may choose to remove the floor tile in order to alleviate any perceived exposure hazard from staff, students or their families. If removal is chosen, EHSI recommends further PCB wipe testing on adjacent/surrounding floor tiles to determine the extent of PCB contamination as well as asbestos testing of floor tile and mastic for waste designation purposes.

#### LIMITATIONS AND STANDARD OF CARE

Testing for PCBs in air was conducted by EHSI in accordance with the Scope of Work defined by EHSI proposal 15-276, authorized on January 7<sup>th</sup>, 2016 with Purchase Order 1871500148. The assessment and recommendations contained in this report are in accordance with currently accepted industrial hygiene practices. Other than this no warranty is implied or intended.

### APPENDIX A SAMPLE LOCATION DRAWING

#### GENERAL NOTES

- DRAWING IS SCHEMATIC AND SAMPLE LOCATIONS ARE APPROXIMATE.
- 2. REFER TO REPORT FOR MORE INFORMATION ABOUT THE SAMPLED MATERIALS.

#### SAMPLE LEGEND

SVEC-AIR-XX) PCB AIR SAMPLE LOCATIONS

2015-PCB-WIPIEPCB WIPE SAMPLE LOCATIONS

EHS-International, Inc.
1011 SW Klickitat Way, Suite 104
Seattle, Washington 98134
Ph: 206.381.128
Fax: 206.254.4279

### MONROE SCHOOL DISTRICT 639 1/2 WEST MAIN ST. MONROE, WA SKY VALLEY EDUCATION CENTER MONROE, WA

PROJECT MANAGER:

L KOLLASCH
INSPECTORS:

L KOLLASCH

SURVEY DATES: 12/23/15-12/24/15

EHSI PROJECT # 10816-01

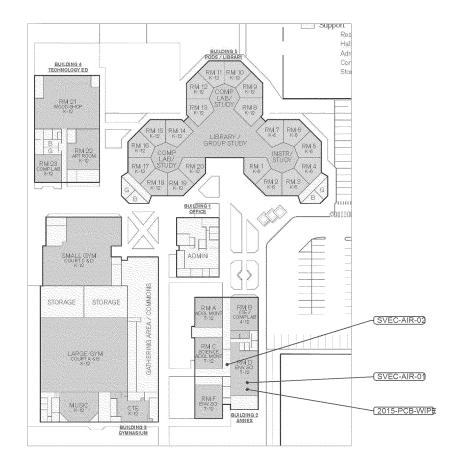
DRAWN BY: DIMALANTA

SCALE: NTS

ISSUE DATE: 1/15/16

SAMPLE LOCATION BUILDING PLAN

SL-1



BUILDING PLAN

NOT TO SCALE

PROJECT NORTH

ED\_001594\_00088590

EPA\_004856

## APPENDIX B LABORATORY RESULTS AND CHAIN-OF-CUSTODY FORM FOR PCB ANALYSIS



Ms. Lisa Kollach EHS-International, Inc. 1011 SW Klickitat Way Suite 104 Seattle, WA 98134 January 11, 2016

DOH ELAP #11626 AIHA-LAP #100324 Account# 13697

Login# L364330

Dear Ms. Kollach:

Enclosed are the analytical results for the samples received by our laboratory on January 05, 2016. All test results meet the quality control requirements of AIHA-LAP and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Nicole Tormey at (888) 432-5227, if you would like any additional information regarding this report. Thank you for using SGS Galson Laboratories.

Sincerely,

**SGS Galson Laboratories** 

Lisa Swab

**Laboratory Director** 

Enclosure(s)

Galson Laboratories, Inc. is now a part of SGS, the world's leading inspection, verification, testing, and certification company. As part of our transition to SGS, you will begin to see some formatting changes with reports that will improve the presentation of data and allow for the transition to the new logo.



LABORATORY ANALYSIS REPORT

Account No.: 13697

Login No. : L364330

Report ID : 917131

Date Analyzed : 06-JAN-16 - 07-JAN-16

6601 Kirkville Road East Syracuse, NY 13057

(315) 432-5227 FAX: (315) 437-0571 www.galsonlabs.com

Client ID : 2015-PCB-WIPE

Client : EHS-International, Inc. Site : Sky Valley Ed Center

Project No. : PCB Ballast Leak
Date Sampled : 23-DEC-15
Date Received : 05-JAN-16

Lab ID : L364330-3 Area : 1 100cm2

Date Analyzed : 01/07/16 Date Sampled : 12/23/15

<u>Parameter</u>	LOQ uq	Total <u>uq</u>	Conc ug/100cm2
PCB Aroclor 1016	0.5	<0.5	<0.5
PCB Aroclor 1221	0.5	<0.5	<0.5
PCB Aroclor 1232	0.5	<0.5	<0.5
PCB Aroclor 1242	0.5	1800	1800
PCB Aroclor 1248	0.5	<0.5	<0.5
PCB Aroclor 1254	0.5	<0.5	<0.5
PCB Aroclor 1260	0.5	<0.5	<0.5
PCB Aroclor 1268	0.5	<0.5	<0.5

**COMMENTS:** Please see attached lab footnote report for any applicable footnotes.

Collection Media:	2x2 Gauze 11-JAN-16	Submitted by:		Approved by: nkp Supervisor: KLD QC	C by: TJB
<pre></pre>	mg -Milligrams ug -Micrograms	-Cubic Meters	kg -Kilograms NS -Not Specified	NA -Not Applicable ppm -Parts per Million	ND -Not Detected LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

6601 Kirkville Road East Syracuse, NY 13057 (315) 432-5227

FAX: (315) 437-0571 www.galsonlabs.com

Client : EHS-International, Inc. Site : Sky Valley Ed Center

Project No. : PCB Ballast Leak
Date Sampled : 24-DEC-15 Date Received : 05-JAN-16

Account No.: 13697 Login No. : L364330

Date Analyzed : 06-JAN-16 - 07-JAN-16

Report ID : 917130

Client ID : SVEC-AIR-01 Lab ID : L364330-1 Air Volume : 289.2 Liter Date Sampled : 12/24/15

Date Analyzed : 01/06/16

	LOQ	Front	Back	Total	Conc
<u>Parameter</u>	<u>ug</u>	<u>uq</u>	<u>uq</u>	ug	mg/m3
PCB Aroclor 1016	0.05	<0.05	<0.05	<0.06	<0.0002
PCB Aroclor 1221	0.05	<0.05	<0.05	<0.06	<0.0002
PCB Aroclor 1232	0.05	<0.05	<0.05	<0.06	<0.0002
PCB Aroclor 1242	0.05	<0.05	<0.05	<0.06	<0.0002
PCB Aroclor 1248	0.05	<0.05	<0.05	<0.06	<0.0002
PCB Aroclor 1254	0.05	<0.05	<0.05	<0.06	<0.0002
PCB Aroclor 1260	0.05	<0.05	<0.05	<0.06	<0.0002
PCB Aroclor 1268	0.05	<0.05	<0.05	<0.06	<0.0002

 $\underline{\mathtt{COMMENTS}}$ : Please see attached lab footnote report for any applicable footnotes.

Collection Media:	225-16/226-39 11-JAN-16	Submitted by: NYS DOH # :		Approved by: nkp Supervisor: KLD Q	C by: TJB
<pre>&lt; -Less Than &gt; -Greater Than</pre>	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms NS -Not Specified	NA -Not Applicable	ND -Not Detected

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LABORATORY ANALYSIS REPORT

6601 Kirkville Road East Syracuse, NY 13057 (315) 432-5227

FAX: (315) 437-0571 www.galsonlabs.com

Client : EHS-International, Inc. Site : Sky Valley Ed Center Project No. : PCB Ballast Leak
Date Sampled : 24-DEC-15

Date Received : 05-JAN-16

Account No.: 13697 Login No. : L364330

Date Analyzed : 06-JAN-16 - 07-JAN-16

Report ID : 917130

Client ID : SVEC-AIR-02 Lab ID : L364330-2 Air Volume : 288.2 Liter

Date Sampled : 12/24/15 Date Analyzed : 01/06/16

	LOQ	Front	Back	Total	Conc
<u>Parameter</u>	<u>ug</u>	<u>uq</u>	<u>ug</u>	<u>ug</u>	mg/m3
PCB Aroclor 1016	0.05	<0.05	<0.05	<0.06	<0.0002
PCB Aroclor 1221	0.05	<0.05	<0.05	<0.06	<0.0002
PCB Aroclor 1232	0.05	<0.05	<0.05	<0.06	<0.0002
PCB Aroclor 1242	0.05	<0.05	<0.05	<0.06	<0.0002
PCB Aroclor 1248	0.05	<0.05	<0.05	<0.06	<0.0002
PCB Aroclor 1254	0.05	<0.05	<0.05	<0.06	<0.0002
PCB Aroclor 1260	0.05	<0.05	<0.05	<0.06	<0.0002
PCB Aroclor 1268	0.05	<0.05	<0.05	<0.06	<0.0002

 $\underline{\mathtt{COMMENTS}}$ : Please see attached lab footnote report for any applicable footnotes.

Collection Media:	225-16/226-39 11-JAN-16	Submitted by: NYS DOH # :		Approved by: nkp Supervisor: KLD Q	C by: TJB
<pre>&lt; -Less Than &gt; -Greater Than</pre>		m3 -Cubic Meters	kg -Kilograms	NA -Not Applicable	ND -Not Detected

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LABORATORY FOOTNOTE REPORT

Client Name : EHS-International, Inc. Site : Sky Valley Ed Center Project No. : PCB Ballast Leak

6601 Kirkville Road East Syracuse, NY 13057 (315) 432-5227 FAX: (315) 437-0571 www.galsonlabs.com

Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

The laboratory does not have control over sampling; reported concentrations are based on client-supplied information (e.g. air volume, sampling time, area).

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L364330 (Report ID: 917131):

Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2).

The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
PCB Aroglor 1016	+/-15.9%	99.9%
PCB Aroclor 1221	+/-16.7%	100%
PCB Aroclor 1232	+/-16.7%	100%
PCB Aroclor 1242	+/-16.7%	100%
PCB Aroclor 1248	+/-16.7%	100%
PCB Aroclor 1254	+/-16.7%	100%
PCB Aroclor 1260	+/-14.9%	103%
PCB Aroclor 1268	+/-16.7%	100%

> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable	<	-Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms	ppm -Parts per Million	
	>	-Greater Than	ug -Micrograms	l -Liters	NS -Not Specified	ND -Not Detected	NA -Not Applicable

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LABORATORY FOOTNOTE REPORT

Client Name : EHS-International, Inc. Site : Sky Valley Ed Center Project No. : PCB Ballast Leak

	Parameter	Method	PEL
	PCB Aroclor 1016	In-house: GC-SOP-10,-18; GC/ECD	NA
	PCB Aroclor 1221	In-house: GC-SOP-10,-18; GC/ECD	NA
	PCB Aroclor 1232	In-house: GC-SOP-10,-18; GC/ECD	NA
	PCB Aroclor 1242	In-house: GC-SOP-10,-18; GC/ECD	NA
	PCB Aroclor 1248	In-house: GC-SOP-10,-18; GC/ECD	NA
	PCB Aroclor 1254	In-house: GC-SOP-10,-18; GC/ECD	NA
	PCB Aroclor 1260	In-house: GC-SOP-10,-18; GC/ECD	NA
	PCB Aroclor 1268	In-house: GC-SOP-10,-18; GC/ECD	NA
L364330 (Report	TD. 917130).		
DJ04JJ0 (Report	PCB Aroclor 1016 - Total ug corrected fo:	a deservation officiency of 999	
	PCB Aroclor 1221 - Total ug corrected fo:		
	PCB Aroclor 1232 - Total ug corrected for		
	PCB Aroclor 1242 - Total ug corrected fo:		
	PCB Aroclor 1248 - Total ug corrected fo:		
	PCB Aroclor 1254 - Total ug corrected fo:		
	PCB Aroclor 1260 - Total ug corrected for		
	PCB Aroclor 1268 - Total ug corrected fo: SOPs: GC-SOP-18(15)		

#### L364330 (Report ID: 917130):

Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
PCB Aroclor 1016	+/-13.7%	106%
PCB Aroclor 1221	+/-14.8%	96.2%
PCB Aroclor 1232	+/-14.8%	95.1%
PCB Aroclor 1242	+/-16.7%	100%
PCB Aroclor 1248	+/-16.7%	100%
PCB Aroclor 1254	+/-16.7%	100%
PCB Aroclor 1260	+/-14.6%	112%
PCB Aroclor 1268	+/-16.7%	100%

	PCB Aroclor 1260 PCB Aroclor 1268	+/-14.6 +/-16.7				
< -Less :	, ,	m3 -Cubic Meters l -Liters	kg -Kilograms NS -Not Specified	ppm -Parts per Million ND -Not Detected	NA -Not Applicable	

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LABORATORY FOOTNOTE REPORT

Client Name : EHS-International, Inc. Site : Sky Valley Ed Center Project No. : PCB Ballast Leak

6601 Kirkville Road East Syracuse, NY 13057 (315) 432-5227 FAX: (315) 437-0571 www.galsonlabs.com

Parameter	Method	PEL
PCB Aroclor 1016	mod. NIOSH 5503; GC/ECD	NA
PCB Aroclor 1221	mod. NIOSH 5503; GC/ECD	NA
PCB Aroclor 1232	mod. NIOSH 5503; GC/ECD	NA
PCB Aroclor 1242	mod. NIOSH 5503; GC/ECD	1 mg/m3 (TWA)
PCB Aroclor 1248	mod. NIOSH 5503; GC/ECD	NA
PCB Aroclor 1254	mod. NIOSH 5503; GC/ECD	0.5 mg/m3 (TWA)
PCB Aroclor 1260	mod. NIOSH 5503; GC/ECD	NA
PCB Aroclor 1268	mod. NIOSH 5503; GC/ECD	NA

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms 1 -Liters NS -Not Specified ND -Not Detected NA -Not Applicabl

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782044380997
Date:01/05/16
Shipper:FEDEX
Initials:CTK
Prep:UNKNOWN

### GALSON CHAIN OF CUSTODY

64330		Vou may adit a	and complete this COC electr	ronically l	by looging in to your	Client Portal accou	nt at https://portal.galsonlabs.co	om/				
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3 Business Days	50%	13697	Company Name :	EHS-International, Inc.			Company Name :	: EHS-International, Inc.				
2 Business Days	75%		Address 1 :	1011 SW Klickitat Way			Address 1 :	1011 SW Klickitat Way				
Next Day by 6pm	100%	Original Prep N	lo,: Address 2 :	Suite 104			Address 2 :	: Suite 104				
	150%	PSY364940	City, State Zip :	Seattle, WA 98134			City, State Zip:	: Seattle, WA 98134				
Next Day by Noon			Phone No.:	206 - 3	381 - 1128	······	Phone No. :	: 206 - 381 - 1128				
Same Day	200%	CS Rep:	Cell No.:				Email Address :	shelbyn@ehsintl.com				
] Samples submitted us		NIORMEI	Email reports to :	lisak@	ehsintl.com		Comments :					
FreePumpLoan™ Prog	ram	Online COC No	Email EDD to :	lisak@	ehsintl.com		P.O. No. :					
Samples submitted us FreeSamplingBadges <sup>1</sup>		100540	Comments :				Payment info. :	Use I will call SGS Galson to pr			pelow)	
Annex B	س <i>ا</i> ورا مزا <i>گ</i> ز مي		n D				State Sample	☐ OSHA PEL ☐ ACGI☐ IAQ : Specify Limit(s)	H TLV C	MSHA Coner:	Cal OSHA	
ite Name : Sxy Valley	لتط لعم	Project	B=1/05+ les	×.Y	Sampled By :	isa K	1 .	of industry or Process/interfere	nces pres	ent in sampli	ng area :	
Sample ID * (Maximum of 20 Chara	,	ate Sampled *	Collection Medium		Sample Volume Sample Time Sample Area *	Liters Minutes in², cm², ft² *	Analysis Requested	Method Reference	,^	Hexavalent Cl Process (e.g., plating, paint	welding,	
SUEC- Air-	51 1	2-23-15	13mm GFF in Swinnex cassette		1,446min	289.26	- PC S	N705H 55	203	Room	0	
suec-Air-	O2 /	2-23-15	13mm GFF in Swinnex cassette		1,441 min	988.5	p c B	NEOSH SS	703	Hall o	uts, de	
3012 - 600-	MIPE	12-23-15	2x2 Gauze pad		/00	cmz	PCB	40 CFR 7	-61	Ballest	leal	
^ If the method(s) ind	licated on the	COC are not our	routine/preferred method(s)	, we will :	substitute our routine	/preferred methods	s. If this is not acceptable, check	here to have us contact you.	·			
Chain of Custody		Print Name / Sig	nature	Dat	e Time		Print Name	/ Signature	Da	te	Time	
Relinquished By :						Received By :			<u> </u>			
Relinquished By:						Received By :	miliause	millause	15	16 1	0:39	
•					e columns for any sar fter 3pm will be cons	•		Account No.	: PSY364 :: 13697	940 015 5:39:49 pr	n	

Page: 1/2

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Member of the SGS Group (SGS SA)



## GALSON LABORATORIES This should NOT be used as a Chain of Custody



Field	Pump	Data	Shee	Í
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Facility:	Sky Valley Ed Ctr. Employee:	WIA KOMASEI	Job Title:	
Address:	351 Short Columbia A,D Number:		Date Of Sampling:	12.27-15 and 12-24-15
	Monroe, UA Sampled By:	LISA KOLLORL		

Field Sampling I	Data					Contamin	ant(s)				
	Media (PW PVC, etc.)	Number	Rotameter Number	Pre-Sample Flow Rate (LPM) *1 or *2			(mine )	Post-Sample Flow Rate (LPM) *1	Average of Pre- and Post- Sample Flow Rates	Adjusted (TRUE) Flow Rate (see sample *3)	Final (TRUE) Air Volume (in Liters (Duration times TRUE Flow Rate
SUEC-Air-01	13 mm GFE	BN934	K881	0.2	8:34	8:40 <u>,</u>	1,446	<i>Ο</i> .2			326-39
Suec-Air-Oa	11	BN1276	C881	0.3	8:462	ଃ: ଏଲ୍ଲ	1,441	0.2			
	:										SK 1/3/16
						·					
											· ·
							1		1		

The result (in this case): 2.0485 Liters per minute.

GALSON LABORATORIES INC. IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, DESTINE AND CERTIFICATION COMPANY ed:11-JAN-16 15:19

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EPA\_004866

<sup>\*1</sup> Flow Rate as indicated on Rotameter \*2 Or use results on Page 1, 3rd column
\*3 SAMPLE: If the Pre-Sample Flow Rate was 2.00 LPM, and the Post-Sample Flow Rate was 2.1 LPM and the Rotameter's Correction Formula was "Y= 0.93 X +0.142", (This is a an example formula ONLY, please use formula on supplied rotameter)
CALCULATE as such: 2.00 + 2.1 divided by 2. Plug THAT figure (2.05) into the formula as "X": 0.93 times 2.05 + 0.142.